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69532

~~69524~~

TOP SECRET

1970 MAR 18 23 45Z

P 182232Z
FM NPIC
[redacted]

25X1

1

AFSSO PACAF
AFSSO ACIC
AFSSO FTD
AFSSO USAFE
CNO
OPCEN
[redacted]
ZEM
T O P S E C R E T TTTTT [redacted] CITE NPIC [redacted]
[redacted]X
[redacted] ALSO FOR 544 ARTW.
SUBJECT: CAMERA INFORMATION FOR MISSION 1109-1.
1. THE MISSION UTILIZED TWO PAN CAMERAS, FOUR HORIZON CAMERAS, DUAL STELLAR CAMERAS AND AN INDEX CAMERA.
2. CAMERA DATA
A. MAIN UNITS

FOCAL LENGTHS (MM)	PAN CAMERAS	PORT HORIZONS	STBD HORIZONS
FWD	609.582	55.234	55.118
AFT	609.597	55.098	55.131

FILTERS

PAN FWD	PRIMARY	W-25
PAN FWD	ALTERNATE	W-23A
PAN AFT	PRIMARY	W-23A
PAN AFT	ALTERNATE	W-25
FWD STBD	HORIZON	W-25
FWD PART	HORIZON	W-25
AFT STBD	HORIZON	W-25
AFT PORT	HORIZON	W-25

APERTURE
STBD HORIZON F/8
PORT HORIZON F/8
FILM
FWD 3404
AFT 3404
DYNAMIC RESOLUTION

FWD HIGH CONTRAST	257
FWD LOW CONTRAST	183
AFT HIGH CONTRAST	271
AFT LOW CONTRAST	164

UNIT NUMBER FWD 321 AFT 320
B. DISIC UNIT NO. 9

	PORT STELLAR	STBD STELLAR	INDEX
FOCAL LENGTHS (MM)	75.852	75.797	76.351
FILTER (WRATTEN)	NONE	NONE	W-12
EXPOSURE (SEC)	1.5	1.5	1/500
FILM	3401	3401	3400

3. LENS DISTORTION (PIN CUSHION) (MM)
A. MAIN UNITS

ANGLE OFF AXIS (DEG)	3	2	1	0	359	358
FWD	2	1	0	0	0	0
AFT	1	0	0	0	0	1

B. HORIZON CAMERA DISTORTION

DISTRIBUTION
CY OFFICE PI
1 FILE
2 CABLE SEC.
[redacted]/PHD
[redacted]
TSSO
3 [redacted] 1 DIAS
[redacted]/PHD
[redacted]X4
[redacted]
[redacted]
[redacted]

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	FWD PORT	FWD STBD	AFT PORT	AFT STBD
RADIAL 10 DEG	.02	.02	.00	.01
20 DEG	.05	.05	.02	.05
TANGENTIAL	.02	.02	.03	.027

4. CAMERA ANGLES

A. ANGLE BETWEEN PAN CAMERAS 30 DEG 38 MIN 39.65 SEC

B. DEPRESSION ANGLES BETWEEN HORIZONS AND PAN CAMERAS

FWD PORT	14 DEG	26 MIN	18.66 SEC
FWD STBD	13DEG	28 MIN	21.74 SEC
AFT PORT	11 DEG	29 MIN	16.40 SEC
AFT STBD	14 DEG	25 MIN	36.71 SEC

C. ANGLES STELLAR AND INDEX CAMERA

STBD STELLAR AND INDEX	99 DEG	43 MIN	19 SEC
PORT STELLAR AND INDEX	100 DEG	01 MIN	52 SEC

5. TIMING MARKS

FREQUENCY MARKS WILL APPEAR ON THE FILM AT A RATE OF 200 CYCLES PER SECOND.

6. IMAGE MOTION COMPENSATION DATA

PASSES	REF LEVEL	AMP LEVEL
1D	3	18
3D	8	14
4D THRU 9D, 32 D THRU 39D	5	12
16D THRU 24D	6	12
40D THRU 79D	5	13
86D, 87D	6	14
88D THRU 102D	5	8
105D, 106D	6	8

NOTE: FOR ALL PASSES PRIMARY PERIOD 3901 SECONDS, SECONDARY PERIOD 2620, SECONDARY RAMP FACTOR 0.049900

7. **PROGRAM TIME DATA**

	CAMERA ON TIME (ZULU TIME)			PROGRAM ON TIME UP RAMP	PROGRAM DURATION
PASS	DAY	HR	MIN	SEC	SEC	SEC
1D	04	23	41	32	1477	36
3D	05	02	37	35	1704	79
4D	05	04	04	26	1600	101
5D1	05	05	33	07	1748	186
5D2	05	05	41	01	2223	56
6D1	05	07	00	56	1689	257
6D2	05	07	06	36	2029	79
7D1	05	08	30	42	1751	198
7D2	05	08	35	11	2021	198
7D3	05	08	40	06	2315	84
8AE	05	09	43	52	818	39
8D	05	10	01	58	1904	262
9D	05	11	32	16	1999	72
16D	05	21	59	22	2421	29
22D1	06	06	44	31	2008	114

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22D2	06	06	47	13	2171	54
23D1	06	08	12	01	1939	80
23D2	06	08	13	54	2053	91
23D3	06	08	16	30	2209	228
24D	06	09	47	36	2305	52
32D	06	21	39	22	2358	53
36D	07	03	27	12	1867	86
38D1	07	06	24	55	1875	44
38D2	07	06	26	07	1947	45
38D3	07	06	30	02	2182	92
39D	07	07	59	43	2235	48
40D1	07	09	24	14	1978	115
40D2	07	09	26	53	2136	79
41D	07	10	53	37	2065	67
52D	08	03	08	14	1925	96
53D1	08	04	37	17	1947	50
53D2	08	04	40	46	2157	39
54D1	08	06	06	52	2000	50
54D2	08	06	13	52	2420	54
55D1	08	07	36	49	2075	43
55D2	08	07	41	32	2357	62
56D	08	09	06	56	2160	90
57D1	08	10	33	11	2016	118
57D2	08	10	36	48	2233	51
58D1	08	12	04	57	2152	31
58D2	08	12	09	14	2408	168
63D	08	19	31	53	2298	43
69D	09	04	18	32	1944	74
71D1	09	07	13	23	1789	215
71D2	09	07	22	01	2307	52
72D	09	08	47	46	2129	127
73D1	09	10	13	57	1976	60
73D2	09	10	17	51	2211	73
74D1	09	11	46	11	2137	45
74D2	09	11	50	26	2392	164
79D	09	19	12	20	2294	41
86D	10	05	32	39	2333	67
87D1	10	06	56	15	2030	133
87D2	10	07	04	46	2541	54
88D	10	08	27	04	1912	34
89D1	10	09	53	59	1795	72
89D2	10	09	57	11	1986	92
90D1	10	11	25	09	1931	168
90D2	10	11	29	31	2193	244
91D	10	12	54	17	1947	90
97DFWD	10	21	52	09	2230	25
97DAFT	10	21	49	44	2086	25
102D1	11	05	12	39	2017	66
102D2	11	05	15	19	2177	57

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105D 11 09 39 01 2060 136
106D 11 11 05 33 1924 227

8. TIME CORRELATION (MILLISECONDS)

PASS	CLOCK TIME	SYSTEM TIME	DIFFERENCE
8	287489.674	34792.5712	-----
16	331987.028	79289.9188	.006
32	417184.857	78087.7351	.013
48	502247.976	76750.8407	.013
57	11636.393	36610.1622	.006
63	45197.916	70171.6792	.006
73	96896.896	35470.6508	.008
89	182113.363	34287.1028	.015
97	226738.259	78911.9906	.008
105	267494.655	33268.3791	.007

NOTE: ALL "DIFFERENCE" VALUES ARE POSITIVE
GP-1

T O P S E CR E T

EOM

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